



(highlight:at the glance) UEFA -CL, Lask v.s Club Brugge, August 2022 Linz, Austria

LED TECHNOLOGY AT UEFA CHAMPIONS LEAGUE LEVEL!

# NEMEZES 10ARS

Application	outdoor / (indoor) (fixinstallation or rental)	screen, score-, fascia-bord, perimeter system
Resolution	10mm, asymmetric pixel pitch	LED Type: ReeStar RS-2727 MWAS high brightness, customized selected batch
Size & Material	400 x 300 mm   2.5kg	alu-magnesium-alloy, die casting, lightweight
PCB Material & Process	TG 170, gold coated, PCB-A random P&P for LED 3D-SPI, vacuum PCB fixture during PCB-A, EOI	LED with flying head underfill glue technology, supports long life, minimized failure rate, high flatness for large viewing angle
Brightness	6600 nits	after calibration
View Angle	> 170° / 160° (H / V) with high flatness (for wide viewing angle viewed over the screen surface)	result in a readable content from the baseline football field camera
Body Structure	closed, fanless system with dust/water protection of IP67 front and rear	design for longlife with selected components, optimized heat absorption, fast lock system
Technology	intelligent led module and power circle system with power- & date redundancy	together with selected components an ultrafast image build-up without ghost shadow effect
Gray Scale	16 bit / PWM driver MBI 5251	hardware-based technology for natural color, high contrast, from 1% to 100% luminosity
Scan Rate	1/3	ultrafast image build-up without ghost shadows effect
Sport Photographer	1 : 2000 / sec, shutter speeds	no missing image information (black lines)
Broadcast, TV	6360 Hz, refresh rate 50/60Hz	flicker free up to hyper slow-motion cam's
Front Mask	LSS laminated front rubber mask EN 13823 EN ISO 1716 (SMOGR, FIGRA, THR, TSP)	flatness guarantee up to 80 ° C, UV-protected



LED panel 1.6m x 90cm with feet and top-cover

Service	front & back maintenance	hot plug maintenance
Alignment	perimeter, horizontal, 90° straight screen: horizontal, vertical	perimeter: mounting feed system, soft top cover screen & fascia: wall mounting system
Frame	1600x 900mm (with feet & top cover = 950mm)	aluminium extruded process 39.6kg/m <sup>2</sup> perimeter panel weight
Gates (Perimeter)	combined swing access- & exit-gate (optional)	3.2m gate, both way open: to the field, from the field away

LED Controller	Full redundant system with UPS	HDMI input, Fiber Channel output (1GB)
PlayOut Media System	<b>SLAM.SYSTEMS</b> modular and redundant PlayOut System, control, administration playback (optional)	Graphical-interface, playlist admin, virtual add, fan engagement, scoreboard, brightness control with sun shader adjustment
Handling	fast system setup-ready to play ( 248 m = 6 person, 4h )	1 operator 2 technician, 4 stage hands
Virtual Advertising	virtual advertising technology on system (optional)	UEFA approved system
Redundancy	Data signal for redundant operation from media PlayOut-, via the controller to the LED-system	Unique: ring circuit technology enables power redundancy in LED systems for the first time
Power Consumption green efficiency	37.46W/m <sup>2</sup>	watt by 225V/50Hz (stand:by)
	88 W/m <sup>2</sup> current average	power consumption pays off for IceHockey Match with floodlights, a mix of animated and static content during the game
	240W/m <sup>2</sup>	current max. full white, full brightness
Lab	CE, RoHS, EMC class A (high-level)	system power-on by cascaded & delayed main power distribution
Compliance	Swiss warranty	UEFA approved and certified system



active module where can be exchange in 10sec during a match



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